SARA SKYWAVES

W5SRA

December 2019

MY CORNER OF THE SHACK

by John Smyder, W5JWS

What a fun time we had at the Christmas dinner at Napoli's on the 7th. We sure missed you if you weren't able to make it. There were a few door prizes and a couple of awards handed out (pictures are elsewhere in the newsletter). We celebrated a number of things that happened this past year, net participation, event participation, and the fact that we are growing. I look forward to the things we'll do in 2020.

Speaking of which, Winter Field Day is coming up on January 25 & 26 and we'll be at the North Pointe Church again this year. This will be the first event that we get to use our new call sign, W5SRA, too. If you are interested in helping out contact Greg (KK6AXF@arrl.net.

We are working on some 'guidelines' for doing a "Coordinated Fox Hunt". How is this different from the regular Fox Hunts we've had you ask? Simple, the coordinated hunt has a live fox that could be anywhere within the city, a Hunt Coordinator (Net Control) that coordinates and tracks the movements of the Hunters. The 'Fox' may or may not be stationary and is not the standard beacon fox we're used to but someone occasionally chiming in on the radio.

Why do this kind of hunt you ask? Simple, because as we've recently learned by helping another local club to find someone interfering with their repeater, a real-life fox doesn't always sit still and may not be confined to a specific area. So, thanks to the urging of N5MMC we are looking at including this type of hunt in our club activities this year. We may do a presentation on this to get everyone familiar with how this would work at one of our General Meetings so keep your eye on the newsletter and ears to our nets (simplex and repeater) for more information.

We are also meeting with the leaders of Sachse CERT, Sachse RACES/ARES, and Chief Wade at the Fire Department to see how SARA my become a 'force multi-

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REMEMBER!

No Club Meeting in December

NEXT SARA MEETING

Thursday January 23, 2020 at 7:30pm
Sachse Public Library Conference Room.

Topic: Club Repeater Discussion
Speaker: **John Smyder, W5JWF**

JOIN US ON THE AIR

SARA Weekly Information Net
When: Weekly on Wednesdays, 8:00pm – 8:30pm
Where: N5LOC (145.250, PL 141.3)

SARA Simplex QSO Net
When: Every 2nd and 4th Tuesdays, 7:30—8:30pm
Where: 146.400 (Simplex)

The Sachse Amateur Radio Association uses the N5LOC repeater in Sachse, TX:

- Frequency: 145.25 MHz
- Shift: -600 kHz
- PL tone: 141.3

... or in person

SARA Eyeball QSO Breakfast
Each Saturday 8-9am (some start arriving at 7:15)
Where: 7320 TX-78, Sachse, TX

SARA Monthly Meeting
When: Every 4th Thursday at 7:30pm
Where: The Sachse Public Library,
3815 Sachse Road Sachse, TX

Continued from page 1

plier' using our communications experience to augment these other community resources. Remember the FCC Part 97 that covers ham radio is titled "Amateur Radio Service" and we are looking at ways to add our expertise in communication to what the city would like and need us to help with. So, I expect there will be more opportunities to work side by side with CERT and RACES/ARES this year as we work with the city understand how best we can serve them and these other organizations. I'll have more to share on this over the coming days as we learn more about what vision the Chief has for this.

As we work to understand how we can integrate and augment these other organizations, that many of us are already part of, we will also begin looking at moving beyond just being an ARRL Affiliated Club to becoming an ARRL Special Service Club. We already do much of what the ARRL looks for in a SSC such as:

New Ham Development and Training: The classes that AG5HB provide with the assistance from our club along with the "Ham Radio in the Park" programs we have done help us meet this requirement.

Public Relations: Participation in the North Pointe Church 15 Year celebration, the Wylie Rodeo, the Sachse Public Service Day help us get the word out about what ham radio is and what it can do.

Emergency Communications: Many in the club are part of Sachse RACES/ARES as well as Sachse CERT. But we also have members who participate in Skywarn activities during the storm seasons.

Technical Advancement: We have some folks who have taken AREDN from a 'cool ham radio' thing and put it to practical use within the CERT organization, as seen at the Wylie Rodeo and other events this past year. I am trying to get the architects, who are members of our club, club to do a write up for QST (hint, hint guys) on practical applications of AREDN.

Operating & Miscellaneous Activities: There are members of our club who are instrumental in helping other hams that may not be able to do what they used to. Those members are showing the real spirit of ham radio by being there to help and mentor others.

I've said all this to help each us of realize that we have a great club and have opportunity to let others within the ham community know what we are up to and that we are probably doing much more than we realize by becoming an ARRL Special Services Club.

I really look forward to seeing everyone at our January meeting at the Sachse Public Library (7:30pm) where we'll share some final details on Winter Field Day and begin club discussions about getting our own repeater up and on the air this year. I look forward to seeing each of you there as we kick off 2020.

73, W5JWS – John S

UPCOMING EVENTS

Jan. 23 - SARA General Meeting
7:30pm at the Sachse Public Library. John Smyder is going to be presenting updates and options for a SARA Club repeater.

Jan. 26-27 - Winter Field Day
Planning has begun. Come try out a new rig, an old rig, or just come by and get some ideas. This year we will be at North Point Church.

Jan. 26 MARC 2M FM Simplex Contest
The contest helps us all be prepared in a number of ways, get to know one another, allow for friendly competition and try out our emergency preparedness skills.

June 12-13 - Ham Com
At the Plano Event Center

- One General Admission ticket is good for both days of the event.
- Online registration begins October 1, 2019 and ends May 31, 2020 at 11:59 PM.
- Online general admission tickets for adults are $8. Ticket prices are $10 if purchased at the event on the days of the event.

Toothpaste In My Go Box
By Lonnie, KG5WHQ

Since I travel with a portable DC soldering iron and a lighter for emergency repairs odds are high I'm going to burn myself. If not directly, by using my fingers for a clamp. And up til recently I have decided to just be a man about my burns and cry like a baby.

I have now added to my go box a cherished piece of gear that is the best burn cream ever. Toothpaste. I am probably late to the party but KI5GMT put me on the straight and narrow after I was smoking meat and received my weekend fingertip trimming.

In the field, toothpaste can also be used on poison ivy rashes and mosquito bites. For real. I don't know if it is better than windex but it does the job. And while you are applying a dab to said bite, should you get blind-sided by a skunk-dousing you can also rub down in toothpaste to reduce your odiferous load.

Should you also need to clean your plastic chair because you don't know what that circular stain in the bottom is, toothpaste to the rescue!

When not in the field some younger ham radio operators boost amazing handlebar mustaches but slip when applying the grey remover. To remove that unsightly display of quality artistic smudgery, call up our hero, the trusty tube of tooth cleaning wonder.

I have used it to fill small drywall nail holes.

Should your teen suffer acne, smear it on her and she'll never ask for expensive treatment again. And what's more important than your ham radio budget?

Traveling back from the field is when we find the ham becomes, shall we say, ripe? Rub some toothpaste on the pits. I have no idea if your YL will think you smell better but you surely will have something to talk about.

WHAT ARE YOU WORKING ON?

I know that many of us have projects going on that other in the club would love to hear about. Consider writing it up for the newsletter. …

Here are just a few that I know about:

- Greg, John Briggs and John Smyder are working on AREDN projects.
- Lonnie was going to review a new nanoVNA $50 analyzer.
- Steve Harbin built a motorized HF antenna lift and may be going into production.
- Mike McCafferty is working on a stealth antenna/weather station and a stealth fox-hunting setup.
- Several people are working on antenna projects, field day set-ups, and other miscellaneous endeavors.
- Several people have been involved in fox-hunting activities.

I would also like to encourage everyone to write a short article about how you became a Ham. Its interesting to know why people become interested and involved with the hobby.

Send your submissions to newslettereditor@sachseradio.org by the third Thursday of the month to be included in the next issue of

SACHSE SKYWAVES !

FT-8 Monday's

The North Texas Microwave Society is holding an FT-8 informal net on2 meters (144.174 USB) starting about 7:30 p.m on all Monday's. There are some folks on the air prior to that for tuning and band condition checking.

This is all done to hopefully increase traffic on 2 meters.I have used it for the start to my VUCC for 2 meters.This does require a radio setup that can do FT-8 on 2 meters. A horizontal antenna is preferred but any antenna can be used to get on the air. Iuse a home made horizontal loop like this:

https://www.sharkclub.org/links/antennas/2m-ssb-loop/2m-loop.htm

It is on a push up pole near 30 foot AGL. 200 plus mile long contacts are not hard with it. Some others use beams. Beams are great but not a requirement.

Their web site is: http://ntms.org/

More information on other informal nets for 222 and 432 is there. I just wanted to get this information out to more folks to se if anybody else wants to do or can do FT-8 on 2 meters.

A great place to check FT-8 propogation is:

https://pskreporter.info/pskmap.html

Fill in the blanks: 2M, signals, sent/rcvd, anyone, blank, ft8, 15 minutes.

Last week there were two guys, one in Austin and one in Houston, that made contact with Florida during our net time. I tried but propogation did not makeit for me.

73's

See you on the bands.

WR5AYWR5AY@yahoo.com

amazon smile prime
Supporting: Sachse Amateur Radio Association

Do you shop at Amazon?

Support the Sachse Amateur Radio Association!

What is AmazonSmile?

AmazonSmile is a simple and automatic way for you to support your favorite charitable organization every time you shop, at no cost to you. When you shop at smile.amazon.com, you'll find the exact same low prices, vast selection and convenient shopping experience as Amazon.com, with the added bonus that Amazon will donate a portion of the purchase price to your favorite charitable organization. You can choose from over one million organizations to support.

How do I shop at AmazonSmile?

To support SARA, simply go to smile.amazon.com from the web browser on your computer or mobile device and setup the organization that you want to support. You may also want to add a bookmark to smile.amazon.com to

HAM★COM
AMATEUR RADIO CONVENTION

You can purchase your general admission tickets online. You can also purchase general admission tickets at the Ham-Com Box Office on the day of the event. Ham-Com 2020 is June 12th and 13th.

IMPORTANT INFORMATION

- **One General Admission ticket is good for both days of the event.**
- Online registration begins October 1, 2019 and ends May 31, 2020 at 11:59 PM.
- Online general admission tickets for adults are $8. Ticket prices are $10 if purchased at the event on the days of the event.
- Online ticket purchases are NOT mailed! Purchases are to be picked up at the Ham-Com Registration Desk, located in the lobby of the Plano Event Center.
- Children 12 and under get in FREE!
- Scouts in full uniform get in FREE!

Online tickets can be securely paid using your credit card (Visa, MC, AmEx, Disc) through PayPal. You do not need a Pay-Pal account!

https://sites.google.com/hamcom.org/ham-com/registration/general-admission

TOYS FOR TOTS

The Sachse Amateur Radio Association would like to thank everyone who was able to donate a toy for the Toys for Tots Program for the City of Sachse. We collected 14 items. 14 more children will get a toy this year thanks to your thoughtfulness.

Thanks again.

Johnnie, KG5CQO

SARA Club Officers for 2019-2020

The standing 2018-2019 club officers were re-elected for the coming year with the exception of Jeff Lock, N5LOC and John Abbott, KF5FWK who have stepped down this year.

President	John Smyder, W5JWS
Vice President	Greg Kent, KK6AXF
Secretary	Johnnie Young, KG5CQO
Treasurer	David Mandala, KG5WFS
Public Information Officer	John Briggs, KC6TVF
Director at Large	Mark Mantooth, KI5CYA
Newsletter Editor	Steve Harbin, W5SOT

NEWSLETTER ARTICLES

Working on a project that you think the club members would be interested in? Read a good HAM related article somewhere? Send articles to Steve, W5SOT, at: newslettereditor@sachseradio.org

ACTIVITIES COMMITTEE

SARA vice-president Greg Kent, KK6AXF heads up the SARA Activities Committee. Anyone who is willing to help or has ideas may contact Greg, KK6AXF, at kk6axf@gmail.com.

EDUCATION TOPICS

SARA education director Leroy Michalow, K5AXP, can use your assistance. If you can suggest or provide an educational program for the weekly NET or for the monthly club meeting please contact Leroy at: kf5dat@gmail.com.

SARA BRANDED GEAR

We now have two suppliers for SARA gear. Both of these companies have our logo on file.

HamThreads will do hats, shirts, jackets and vests. They can do single items. HamThreads is in Saginaw.
https://www.hamthreads.com

Cactus Awards is local to Wylie and they specialize in Awards, Trophies, Plaques, Engraving and Embroidery as well as Tee -Shirt printing. Minimum order for some clothing is 3.
http://www.cactusawards.com

SARA NAME BADGES

If you need a SARA name badge please go to:
https://namebadge.com/sachse

Why I wanted to be a HAM

By Mark M.antooth, KI5CYA

Since I was young, I have always been intrigued by the things that I do not see and their complexities; from what our naked eyes cannot see (a single cell) to the furthest star, it is an admiration. It may be in conjunction with my faith.

With this mindset, around the age of 8, I was visiting my Uncle Joey (a Burt Reynolds clone) who had a

Sharp 23 Channel CB Radio. Listening to the unknown voices and the glowing channel number being lit on the radio, the mystery of other individuals and how their voices were not visible in the sky caught my interest. Of course, "Smokey and the Bandit" added to the curiosity.

When I revisited my Grandmother a year later, Uncle Joey came to visit. He handed me a brown paper bag. To my surprise, the Sharp CB Radio given to me.

That was my hook, line and sinker.

A year later, I befriended a classmate named Matt. As time passed, we became good friends. Matt and

his family were from Canada and had to move away. He had always expressed wanting to move back to Texas once he grew up.

Before he left, he gave me an old Hallicrafter CB7 Tubed Radio that he never had a chance to hook-up.

My father and I were able to make it work when he found a blind man, who had his wife help him with his radio repair business at his home. He lived near the corner of Garland and Miller Rd in a small house. When I walked into his "shack", I was mesmerized by the circuit boards, radios and vacuum tubes laying around. This was another impressionable moment.

Soon after, my grandfather was able to make a mount and attach it to the roof of my house, on which I put an MagMount Antenna. I did not talk far, nor understand SWR, but I was happy. Later the radio gave up the ghost, and I did not have a radio, as the Sharp had given up its spirit too.

In my early teens, I did purchase other CB Radio. During that time, I chose the handle "QuestionMark". My logic was thinking that other were curious to know who I was, and it gave them a hint to my name. Needless to say it stuck with people.

When I reached my later teens, I was able to purchase a Radio Shack Navaho Radio and kept it into my early 20s, until Lighting stuck my Radio Shack ½ wave antenna. Needless to say, I did not understand grounding.

Over the years, I worked for Nortel (Northern Telecom) and observed their HAM Radio Club. However, knowing Morse Code was my "detriment" (fear).

After years of being busy, I noticed that my neighbor became a HAM Radio Operator and learned that Morse Code was not required these days. I made it a point to learn the hobby.

After purchasing a Baofeng Radio and listening to the professionalism and WoW (Way of Working), I was hooked.

As of January 2019, I have received my Technical and then General License (KI5CYA). I felt blessed with the CallSign, as it has a uniqueness to my CB Handle (QuestionMark)

Since then I have upgraded to an ICOM 5100 and a Kenwood TS-2000.

Along the way, I have made friends and continue enjoy this unique community.

QSO Breakfast Pictures

November 31, 2019

December 7, 2019

December 14, 2019

SARA 2019 Christmas Party

Golden Mic Award
Linda Smyder

Silver Mic Award
Not yet presented

Bronze Mic Award
Mark Mantooth

*Mic Awards are for Net Participation and are rotating trophies.

Sachse Amateur Radio Association Weekly Repeater Net Script

Version: 5.0 - October, 10 2019

Good evening and welcome to the "*Ham Radio in Sachse*" Weekly Information Net. My name is (*name, call sign*), and I will be your net control this evening. (***pause)*** This net is heard every Wednesday evening at 8:00pm on the N5LOC repeater, which is on a frequency of 145.250 using a PL tone of 141.3. All licensed amateurs are invited and encouraged to participate, whether you are a club member or guest. (***pause)***. This is a Directed Net. Please do not transmit unless directed to do so by Net Control. If at any time, you have an emergency to report, break in by saying "Priority" or "Emergency" followed by your call sign and the net will stand by. An emergency is defined as the imminent threat to life or property. **Is there any emergency, priority or time sensitive traffic at this time? *Pause***

Check-Ins:
Before we begin, we will be taking check-ins, three at a time. If you would like to check into this net, please give your call sign phonically, your name and repeat your Call Sign alphanumerically slowly, so Net Control can write it down. (*write down and read back call signs of check ins*). (Remember: Echo Link users (if any) need a few extra seconds to respond).

Club Announcements: ***Now is a good time for Net Control to ID.***
Our first topic will be announcements from club officers. Any club officer on the net with an announcement, please give your call sign now.

Member & General Comments: ***Now is a good time for Net Control to ID.***
Our next topic is member & general comments. Any member of the Sachse Amateur Radio Association, or anyone else on this net, who would like to make a comment, please give your call sign now.

Tech Talk: ***Now is a good time for Net Control to ID.***
Our next topic is Tech Talk. Ask any questions you may have of a technical nature regarding amateur radio or computers. Feel free to share any information or share comments that you find to be valuable with the group. If anyone has an item for Tech Talk, please give your call sign now.

Swap Shop: ***Now is a good time for Net Control to ID.***
Our next topic is Swap Shop. Anyone wishing to buy, sell, trade, or give away items related to ham radio or computers is invited to do so. Please do not haggle over price on the air. If anyone has an item for Swap Shop, please give your call sign now.

Education: ***Now is a good time for Net Control to ID.***
Our next topic is Education. Anyone who has an education presentation they would like to make or want to suggest an item for a future presentation, please give your call sign now.

How Was Your HAM Week: ***Now is a good time for Net Control to ID.***
Now for the fun part of our hobby, which our next topic is called "***How Was Your HAM Week***". This exercise allows any station to share anything related with HAM Radio, since our last Net Control or Monthly Meeting. Example topics can be "DX'ing Observations", "Experiences", "Challenges", "Lesson-Learn with your equipment", or even "Victories on a project". The goal of sharing is to forge relationships, as we are currently enjoying the hobby. Whether you are a member or guest, this exercise is voluntary. No station is under obligation to share anything. As your Net Control, I will start by briefly sharing my "Ham Week". Once done, I will then ask if any station would like to share their "Ham Week". Simply give your Call Sign and Net Control will recognize the station and give you the platform to share.
(*Net Control – provide positive feedback on their topic.)*

Late Check-Ins: ***Now is a good time for Net Control to ID.***
Next Net Control would like to take late check-ins. If there are any late check-ins, whether RF or Echo Link, please give your call sign and name slowly and clearly. (*write down and read back each call sign*).

Last Call:
Before we conclude the net, is there any other Stations wishing to report into the Net and/or have any comments?

Wrap-Up: ***Now is a good time for Net Control to ID.***
This concludes the "Ham Radio in Sachse" Weekly Information Net. If you would like more information about the Sachse Amateur Radio Association, please visit our web site at www.sachseradio.org. This is (*call sign*) and we now return the N5LOC repeater to its normal use.

Sachse Amateur Radio Association Simplex Net Script

Version: 5.0 - October 10, 2019

Good evening and welcome to the "*Ham Radio in Sachse*" Simplex Net. My name is (*name, call sign*), and I will be your net control this evening. This net can be heard every 2nd and 4th Tuesday evening at 7:30 pm on a frequency of 146.40 Simplex. Therefore, there is no need for an offset or PL tone. All licensed amateurs are invited and encouraged to participate, whether you are a club member or a guest. This is a Directed Net. Please do not transmit unless directed to do so by Net Control. At the end of check-ins, I will ask for relays of check-ins I acknowledged, that you did not hear, and check-ins that I did not hear. Near the end of the program, I will ask for a signal report. If at any time, you have an emergency to report, break in by saying "Priority" or "Emergency" followed by your call sign and the net will stand by. An emergency is defined as the imminent threat to life or property. **Is there any emergency, priority or time sensitive traffic at this time?** ***Pause - hearing none…***

Check-Ins:
We will start by taking check-ins, three at a time. If you would like to check into this net, please give your call sign phonically, then your name, and then your call sign alphanumerically, so Net Control can write them down. Please come now in groups of 3.
(*write down and read back call signs of check ins*).
When there are no more check-ins, go through the list and ask if anyone heard a check-in that you did not acknowledge or if there is a check-in that they did not hear.
You may have to pick a relay person for the night.
If you had to pick a relay person or persons, then remember to stop after each conversation and have the relay person pass that information on.

Club Announcements: ***Now is a good time for Net Control to ID.***
Our first topic will be announcements from club officers. Any club officer on the net with an announcement, please give your call sign now.

Member & General Comments: ***Now is a good time for Net Control to ID*.**
Our next topic is member & general comments. Any member of the Sachse Amateur Radio Association, or anyone else on this net, who would like to make a comment, please give your call sign now.

Tech Talk: ***Now is a good time for Net Control to ID*.**
Our next topic is Tech Talk. Ask any questions you may have of a technical nature regarding amateur radio or computers. Feel free to share any information or share comments that you find to be valuable with the group. If anyone has an item for Tech Talk, please give your call sign now.

Education: ***Now is a good time for Net Control to ID*.**
Our next topic is Education. Anyone who has an education presentation they would like to make or want to suggest an item for a future presentation, please give your call sign now.

Signal reports: ***Now is a good time for Net Control to ID*.**
Next, we will discuss signal reports. How does net control and/or the check-ins come across. I will go down the list of check-ins so everyone can give a response. Please use the plain language radio checks provided on the Sachse Radio web page.
(For example; net control was loud and clear.) Also please include your power level at the end of you signal report.
(You start.)

Late Check-Ins: ***Now is a good time for Net Control to ID*.**
Next Net Control would like to take late check-ins. If there are any late check-ins, please give your call sign and name slowly and clearly.
(*write down and read back each call sign*).
Remember to ask if there are any check-ins you did not acknowledge or check-ins that others did not hear.

Last Call:
Before we conclude the net, are there any Stations wishing to report into the Net and/or have any comments?

Wrap-Up: ***Now is a good time for Net Control to ID.*** This concludes the "Ham Radio in Sachse" Simplex Net. If you would like more information about the Sachse Amateur Radio Association, please visit our web site at www.sachseradio.org. This is XXXXXX and we will now return this frequency to its normal use

Do you need to join or renew your membership in the Sachse Amateur Radio Association?
Print this page, fill it out, and bring the form to the next club meeting.
Sachse Amateur Radio Association Membership Application

Sachse Amateur Radio Association Sachse, Texas 75048-3696 www.sachseradio.org kf5nbo@gmail.com

Type of Application: New Member ☐ **or Renewal** ☐ **Date:**_____

Your Call Sign:_____ **Your License Class:**_____

Your Name:_____ **Spouses Name:**_____

Address:_____

City:_____ **State:**_____ **Zip:**_____

Home Phone:_____ **Work Phone:**_____

Cell Phone:_____ **Email:**_____

Membership Types: Please check only one option below:

☐ **Regular:** A regular member shall be any FCC licensed amateur radio operator who does not fall under the special provision of an associate or student membership. Regular member dues are $25.00 per year unless prorated (see below).

☐ **Family:** A family membership shall be any FCC licensed amateur radio operators and non-licensed family members interested in amateur radio who live in the immediate household. Family member dues are $30.00 per year unless prorated (see below).

☐ **Associate:** An associate member shall be any person maintaining membership to support the association but who does not hold a license as a radio amateur. Associate member dues are $10.00 per year and are not prorated.

☐ **Student:** A student member shall be any FCC licensed amateur radio operator who is currently enrolled as a full time student, is 18 years of age or younger, and is not otherwise eligible to be included in a family membership. Student member dues are $10.00 per year and are not prorated.

If selecting Family membership, please list the family members covered by this application.

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Membership Dues: (Please check only one)

Dues are initially paid upon joining the association. Renewal dues are paid no later than the September meeting each year. A new application must be submitted each year as well. Dues are reduced (prorated) for Regular and Family members (only) who join or renew their membership after Dec 31st:

☐ Joining Sep 1 thru Dec 31, pay $25.00 for Regular dues, or $30.00 for Family dues.
☐ Joining Jan 1 thru Mar 31, pay $18.75 for Regular dues, or $22.50 for Family dues.
☐ Joining Apr 1 thru Jun 30, pay $12.50 for Regular dues, or $15.00 for Family dues.
☐ Joining Jul 1 thru Aug 31, pay $6.25 for Regular dues, or $7.50 for Family dues.

TOTAL DUE: $_____

Are you a current member of the ARRL? ☐ YES or ☐ NO (please chose one).

By submitting this application, either by hand or any electronic means, you hereby agree to abide by the rules and regulations of the Sachse Amateur Radio Association.

Signature:_____